



Wayne  
County  
Community  
College  
District

# Business Analytics

## PAY

The median annual wage for statisticians was \$80,110 in May 2015. The lowest 10 percent earned less than \$42,220 and the top 10 percent earned more than \$121,890.

## JOB OUTLOOK

Employment of statisticians is projected to grow 34 percent from 2014 to 2024, much faster than the average for all occupations. Growth is expected to result from more widespread use of statistical analysis to make informed business, healthcare, and policy decisions. In addition, the large increase in available data from the Internet will open up new areas for analysis.

*Bureau of Labor Statistics, U.S. Department of Labor, Occupational Outlook Handbook, 2016-17 Edition, Statisticians, on the Internet at <http://www.bls.gov/ooh/math/statisticians.htm>*

## ABOUT THE PROGRAM

The Business Analytics certificate is designed to provide students with in-depth instruction and prepares students for entry-level Business Analytics positions requiring knowledge, setup and usage of business intelligence and data analysis solutions. Business Analytics is expanding in businesses, government agencies and not-for-profit organizations, enabling professionals to make better decisions utilizing appropriate data and information. Students will have the ability to structure data and prepare reports in ways that are meaningful to business decision makers. Course work will include database concepts, data modeling, SQL, data analysis, data mining tools, mathematical and statistical techniques, project management and systems analysis. Emphasis is placed on strong communication skills necessary to interact with key users and understand their requirements.



## WHAT DO STATISTICIANS DO?

Statisticians use statistical methods to collect and analyze data and help solve real-world problems in business, engineering, the sciences, or other fields. Statisticians typically apply statistical theories and methods to solve practical problems in business, engineering, the sciences, or other fields; decide what data are needed to answer specific questions or problems; determine methods for finding or collecting data; analyze and interpret data; report conclusions from their analyses.

Statisticians use computers with specialized statistical software to analyze data. In their analyses, statisticians identify trends and relationships within the data. They also conduct tests to find out the data's reliability and validity. Some statisticians may help create new statistical software packages to analyze data more accurately and efficiently.

## WHERE DO THEY WORK?

Statisticians who work for private businesses often work in teams with other professionals. Statisticians may travel occasionally to meet with team members, set up surveys and research projects, or oversee the collection of data.



**Wayne County Community College District....  
Jobs for Today, Jobs for the Future!**

**FOR MORE INFORMATION, CALL 313-496-2600  
OR VISIT OUR WEBSITE AT WWW.WCCCD.EDU**

## Recommended Sequence of Courses

### Business Analytics: College Certificate

CR. No.	COURSE TITLE	CREDITS
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#### **SEMESTER 1**

CIS 110	Introduction to Computer Information Systems . . . . .	4
CIS 112	Structured Design . . . . .	3
BUS 161	Introduction to Big Data and Business Analytics . . . . .	3
MAT 113	Intermediate Algebra . . . . .	3

**SEMESTER TOTAL . . . . .13**

#### **SEMESTER 2**

BUS 241	Business Analytics Software and Programming . . . . .	4
CIS 120	Introduction to Database Concepts . . . . .	3
CIS 207	Java Programming Language . . . . .	4

**SEMESTER TOTAL . . . . .11**

#### **SEMESTER 3**

MAT 131	Descriptive Statistics . . . . .	3
BUS 261	Business Applications of Big Data . . . . .	3
CIS 260	System Analysis and Design . . . . .	3

**SEMESTER TOTAL . . . . .9**

#### **BUSINESS ANALYTICS**

**CERTIFICATE TOTAL . . . . .33**

*Note: Certificate totals may not include prerequisites.*

